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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28	Oct 21	EVENTLINE has been reloaded
NEWS 29	Oct 24	BEILSTEIN adds new search fields
NEWS 30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 32	Nov 18	DKILIT has been renamed APOLLIT
NEWS 33	Nov 25	More calculated properties added to REGISTRY
NEWS 34	Dec 02	TIBKAT will be removed from STN
NEWS 35	Dec 04	CSA files on STN
NEWS 36	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 37	Dec 17	TOXCENTER enhanced with additional content
NEWS 38	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS 39	Dec 30	ISMEC no longer available

NEWS EXPRESS	January 6 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information

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 NEWS LOGIN     Welcome Banner and News Items
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 NEWS WWW       CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:22:03 ON 09 JAN 2003

=> file medline biosis caplus embase
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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=> s nucleic (p)duplex(p)temperature
L1          211 NUCLEIC (P) DUPLEX(P) TEMPERATURE

=> s l1(p)below(p)melting
L2            6 L1(P) BELOW(P) MELTING

=> duplicate remove l2
DUPLICATE PREFERENCE IS 'MEDLINE, BIOSIS, EMBASE'
KEEP DUPLICATES FROM MORE THAN ONE FILE?  Y/(N):n
PROCESSING COMPLETED FOR L2
L3            2 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

=> d his

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     FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 12:22:26 ON 09 JAN 2003
L1          211 S NUCLEIC (P)DUPLEX(P)TEMPERATURE
L2            6 S L1(P)BELOW(P)MELTING
L3            2 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)
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WEST

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Main Menu | Search Form | Posting Counts | Show S Numbers | Edit S Numbers | Preferences | Cases

Search Results -

Terms	Documents
L2 same 35	2

Database: US Patents Full-Text Database
US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L6

Refine Search

Recall Text Clear

Search History

DATE: Thursday, January 09, 2003 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=YES; OP=OR			
L6	L2 same 35	2	L6
L5	L2 same 48	1	L5
L4	L2 same 40	0	L4
L3	L2 same 40 same 48	0	L3
L2	L1 same below same melting	140	L2
L1	nucleic same duplex same temperature	1466	L1

END OF SEARCH HISTORY

L3 ANSWER 1 OF 2 MEDLINE DUPLICATE 1
AN 97465962 MEDLINE
DN 97465962 PubMed ID: 9321670
TI A fiber optic biosensor for fluorimetric detection of triple-helical DNA.
AU Uddin A H; Piunno P A; Hudson R H; Damha M J; Krull U J
CS Department of Chemistry, Otto Maas Chemistry Building, McGill University, Montreal, Quebec H3A 2K6, Canada.
SO NUCLEIC ACIDS RESEARCH, (1997 Oct 15) 25 (20) 4139-46.
Journal code: 0411011. ISSN: 0305-1048.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199712
ED Entered STN: 19980109
Last Updated on STN: 19990129
Entered Medline: 19971202
AB A fiber optic biosensor was used for the fluorimetric detection of T/AT triple-helical DNA formation. The surfaces of two sets of fused silica optical fibers were functionalized with hexaethylene oxide linkers from which decaadenylic acid oligonucleotides were grown in the 3'to 5'and 5'to 3'direction, respectively, using a DNA synthesizer. Fluorescence studies of hybridization showed unequivocal hybridization between oligomers immobilized on the fibers and complementary oligonucleotides from the solution phase, as detected by fluorescence from intercalated ethidium bromide. The complementary oligonucleotide, dT10, which was expected to Watson-Crick hybridize upon cooling the system **below** the **duplex melting temperature** (T m), provided a fluorescence intensity with a negative **temperature** coefficient. Upon further cooling, to the point where the pyrimidine motif T*AT triple-helix formation occurred, a fluorescence intensity change with a positive **temperature** coefficient was observed. The reverse-Hoogsteen T.AT triplex, which is known to form with branched **nucleic** acids, provided a corresponding decrease in fluorescence intensity with decreasing **temperature**. Full analytical signal evolution was attainable in minutes.

L3 ANSWER 2 OF 2 MEDLINE DUPLICATE 2
AN 92253408 MEDLINE
DN 92253408 PubMed ID: 1579489
TI Properties of pseudouridine N1 imino protons located in the major groove of an A-form RNA duplex.
AU Hall K B; McLaughlin L W
CS Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, St Louis, MO 63110.
NC GM37065 (NIGMS)
SO NUCLEIC ACIDS RESEARCH, (1992 Apr 25) 20 (8) 1883-9.
Journal code: 0411011. ISSN: 0305-1048.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199206
ED Entered STN: 19920619
Last Updated on STN: 19970203
Entered Medline: 19920605
AB The exchangeable N1 imino protons of two pseudouridine (psi) bases located at adjacent internal positions within an undecamer RNA **duplex** (5'AUAC psi psi ACCUG/3'UAUGAAUGGUC) can report on the environment of the major groove of an A-form double-stranded **nucleic** acid. The psi N1 imino protons of these residues (which are not involved in interstrand Watson-Crick hydrogen bonding) are protected from chemical exchange with the solvent water and thus are observable in the proton NMR spectrum in

H2O (1). These protons will exchange readily at increased pH values or upon thermal denaturation of the **duplex**. The longitudinal (T1) relaxation times of the psi N1 imino protons in 100 mM NaCl or in 10 mM MgCl2 and 100 mM NaCl are approximately two-fold faster than those of the psi N3 imino protons which are involved in Watson-Crick base pairing. With the addition of spermidine, the psi N1 imino protons become readily exchangeable at a **temperature** some 20 degrees C **below** the **melting temperature** of the **duplex**.

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